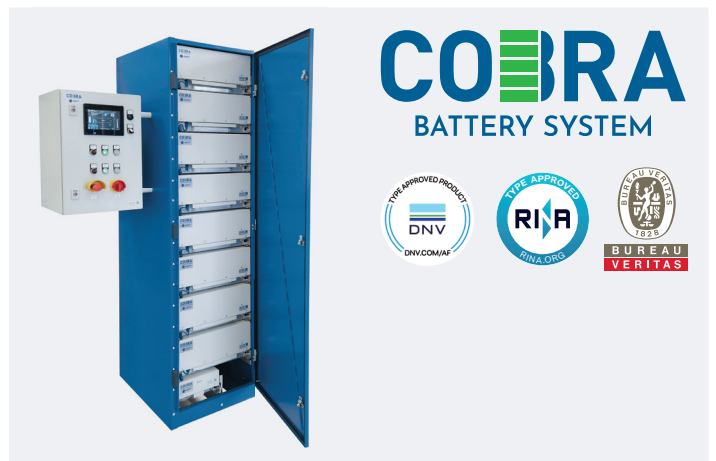


DATA SHEET



System specifications

Cell chemistry	Lithium Ferrophosphate (LFP)
Cooling	Liquid
C-rate peak disch./char.	1.5 C
C-rate cont. disch./char.	1 C
Class approvals	DNV, BV, RINA, ESTRIN
Communication interface	Modbus TCP or others
Energy	scalable up to several MWh

Module specifications

Energy	11.7 kWh
Voltage	min. 88 nom. 112 max. 126 VDC
Weight	90 kg
Dimensions	H 213 W 460 D 585 mm
Gravimetric energy density	130 Wh/kg 7.69 kg/kWh
Volumetric energy density	204 Wh/l
Protection grade	IP44

Switch Unit (string controller)

Master battery management system	Integrated
Pre-charge functionality	Integrated
DC fuses and contactor	Integrated

COBRA configurations

Modules per rack	3	4	5	6	7	8
Energy (kWh)	35.0	46.8	58.5	70.2	81.9	93.6
Weight, water-cooled (kg)	365	480	590	700	810	920
Voltage min. nom. max. (VDC)	264 336 375	352 448 500	440 560 625	528 672 750	616 784 875	704 896 1000
Dimensions H W D (mm)	928 522 675	1147 522 675	1366 522 675	1585 522 675	1804 522 675	2023 522 675

Control Cabinet (multi-string controller)

Power supply	24 VDC or 230 VAC
No. of racks in parallel	Up to 16 racks
Display	7" touch panel

Safety specifications

Thermal runaway protection	No propagation on cell level
Short circuit protection	HV-fuses on rack and module level
Gas detection	Included on module level
Emergency stop	Hard-wired
Temperature monitoring	Redundant on module level
Gas exhaust	<200°C during thermal runaway
Balancing functionality	Included on cell and module level
Water leakage detection	Included on cell and module level

